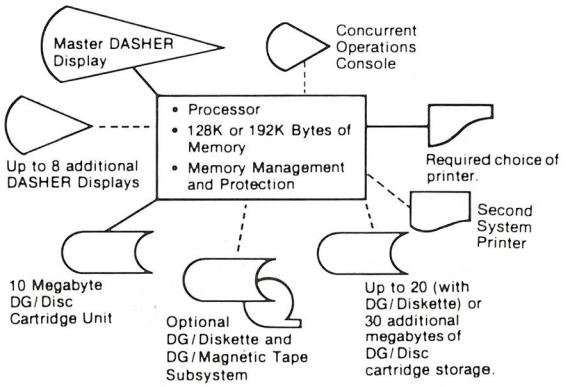
Data General

CS/40 MOD C5
SYSTEM BRIEF

FEATURES

- Interactive execution of business applications using ANSI '74 COBOL on up to nine terminals
- Interactive COBOL program editing, modification and debugging
- Software compatible with other Commercial Systems
- Sophisticated sequential, random and indexed sequential (ISAM) data access
- Proven multifunction operating software and utilities
- Optional 2780/3780-compatible and HASP II emulation communications capabilities
- Basic system module containing a powerful processor, DASHER™ display and a 10-megabyte disc cartridge unit
- Fast access of up to 40 megabytes of disc storage
- Wide choice of printers
- Optional diskette or magnetic tape storage
- Optional concurrent operations capability


Master DASHER Display
Concurrent Operations Console
• Processor
• 128K or 192K Bytes of Memory
• Memory Management and Protection
Up to 8 additional DASHER Displays
Required choice of printer.
Second System Printer
10 Megabyte DG/Disc Cartridge Unit
Optional DG/Diskette and DG/Magnetic Tape Subsystem
Up to 20 (with DG/Diskette) or 30 additional megabytes of DG/Disc cartridge storage.

DESCRIPTION

Data General's CS/40 Mod C5 combines easy-to-use interactive ANSI '74 COBOL and utilities with multitasking operating software and attractive, operator-oriented hardware. The basic system elements are designed and configured to best fit the needs of a variety of business applications, such as order entry, warehouse management, production control and financial management.

Data General's Interactive COBOL allows easy programming of interactive data entry, inquiry/response and processing applications. Interactive COBOL meets ANSI '74 Level 1 standards and includes screen formatting and file management capabilities ideal for installations with transaction-driven requirements. Interactive COBOL allows sequential, random and indexed sequential (ISAM) data access.

The multiterminal control software manages the system's resources to provide interactive response in a multifunction environment; i.e., multiple terminals running a single application, multiple terminals running separate applications, or any combination of the two.

Mod C5 components include Data General's Interactive COBOL language with extensive file management utilities, a Data General computer system running under the control of sophisticated operating software, one DASHER display terminal, 10 megabytes of DG/Disc cartridge storage, and a choice of printers. Up to nine DASHER display terminals and up to 40 megabytes of DG/Disc cartridge can be used on the system. A DG/Tape unit and DG/Diskette unit can be added for software and data transportability and for convenient offline data storage.

INTERACTIVE COBOL

Data General's Interactive COBOL provides powerful data management capabilities, multiterminal control and extensive program development aids. It implements ANSI '74 Level 1 standards in the nucleus; table handling; sequential, relative and indexed sequential (ISAM) data access; and library modules. Extensive Level 2 elements, as well as screen management capabilities, make Interactive COBOL ideal for interactive, transaction-driven processing.

Program development aids include a powerful text editor, a highly efficient COBOL compiler, simple everyday-language diagnostics and an interactive COBOL program debugger. The debugger lets the programmer temporarily stop program execution to examine and/or modify program data. The debugger uses everyday-language commands that reference the actual COBOL PROCEDURE and DATA DIVISION names.

Compiled Interactive COBOL programs execute under a sophisticated terminal control program that manages all system resources as well as the concurrent execution of up to nine separate Interactive COBOL programs running from separate terminals. Applications never have to be programmed to handle multiple terminals. The software also allows print spooling for printing by priorities, sending of messages to system users, and various other command functions.

FILE MANAGEMENT

Interactive COBOL includes sequential, random and indexed sequential (ISAM) access for efficient data management. File and record lockout provisions insure secure data management by controlling concurrent access by other programs. File access lockout can be used with sequential files. File and record level lockout can be used with random and indexed sequential files.

OPERATING SYSTEM

The Interactive COBOL compiler and multiterminal control software run under a sophisticated operating system. The operating system supports multiterminal operations and efficiently manages critical system resources, including memory.

The disc-based operating system combines with memory management hardware to dynamically allocate system memory to user programs.

For system management and control, an interactive Command Line Interpreter simplifies handling start-up, shut-down and normal system operation. System copy utilities include disc-to-tape, tape-to-disc, and disc-to-disc for system and data backup. Other useful utilities such as SORT and file analysis programs are supplied as well.

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CONCURRENT OPERATIONS

CS/40 Mod C5 systems optionally provide a capability that allows users to combine an interactive production environment with debugging, development, communications or printing activities. Batch-oriented activities such as program development, printing, utilities and communications can run concurrently with the interactive jobs.

COMMUNICATIONS

Data General's RJE80 Remote Job Entry control program and HASPII Workstation Emulator let Data General CS40 systems perform remote job entry tasks and communicate with other Data General Commercial Systems and other IBM-compatible systems.

RJE80 allows both point-to-point communications, emulating an IBM-compatible 2780 or 3780 remote batch terminal. The HASP II Workstation Emulator program collects and blocks data records for transmission to remote computer systems or terminal systems. With an IBM 360/370, Data General HASP emulates an IBM HASP Workstation (IBM 360/20). Interleaving and data compression provide highly efficient data transmission. These programs also let Data General Commercial Systems exchange program and data files among themselves without additional user programming.

COMMERCIAL SYSTEMS FAMILY

Commercial Systems CS/40 are fully program and data compatible with other Data General Commercial Systems family members. Users can develop programs on CS/40 to run on any Commercial Systems model, or use programs developed on Commercial Systems CS/20 and CS/60 to run on CS/40. The interchangeability of programs and data is key to system expansion as users move up to larger family members. CS/40 users can offload or share tasks with CS/20 and CS/60 systems without reprogramming applications. There are also larger CS/40 systems that support up to 570 megabytes of data storage.

HARDWARE

The Basic Mod C5 system includes:

- A high-performance, compact, general-purpose computer with 128K or 192K bytes of memory, designed for demanding interactive requirements.
- A DG/Disc cartridge subsystem with 10 megabytes of data and program storage.
- A DASHER display with an 80-character by 24-line CRT mounted in swivel cabinetry and a free-standing typewriter keyboard and standard numeric pad.
- A wide choice of printers, including 180-cps, 240-lpm and 300-lpm models.

Up to nine DASHER display terminals and up to 30 (if using DG/Diskette unit) or 40 megabytes of DG/Disc cartridge storage may be used with this system.

The Mod C5 system can include a DG/Diskette unit and an industry-compatible magnetic tape unit for transporting programs and data among systems and for convenient offline storage of programs and data.

An optional synchronous line controller provides full modem control; EIA (RS 232-C/CCITT V24) interfaces for communications with RJE80 or HASP II emulation programs.

A second system printer is optional. The concurrent-operations feature requires a second system console.

ENVIRONMENTAL REQUIREMENTS

CS/40 system operate in standard office environments. The maximum room temperature is 85°F and the relative humidity can range up to 95%.

The materials contained herein are summary in nature, subject to change, and intended for general information only. Details and specifications concerning the use and operation of Data General equipment and software are available in the applicable technical manuals, available through local sales representatives.

Data General

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